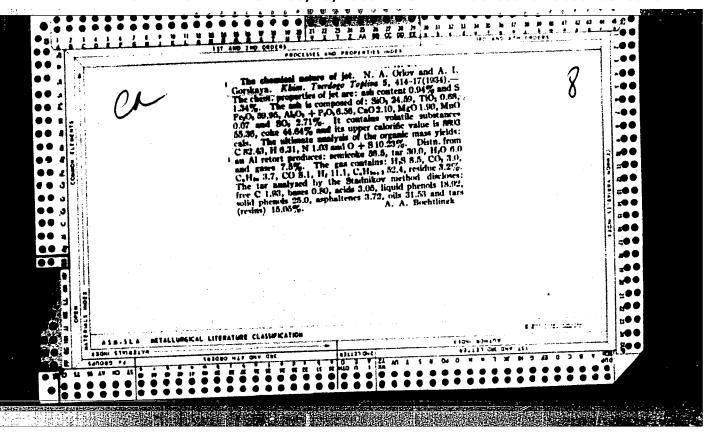
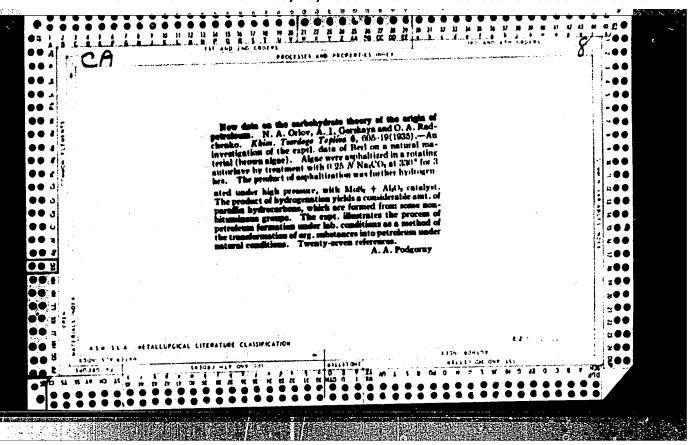
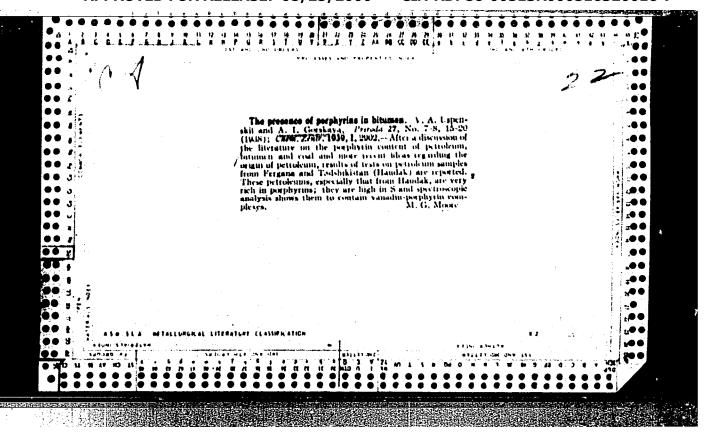
GORSKA, R.: JANKOWSKA, B.

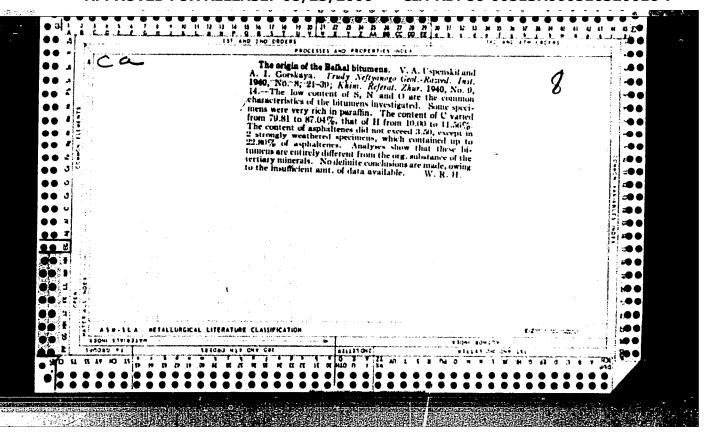
The effect of deafferentation on the instrumental conditioned reflexes established in dogs by reinforcing passive movements. In English. Bul Ac Pol biol 8 no.9:527-530 '60. (EEAI 10:7)

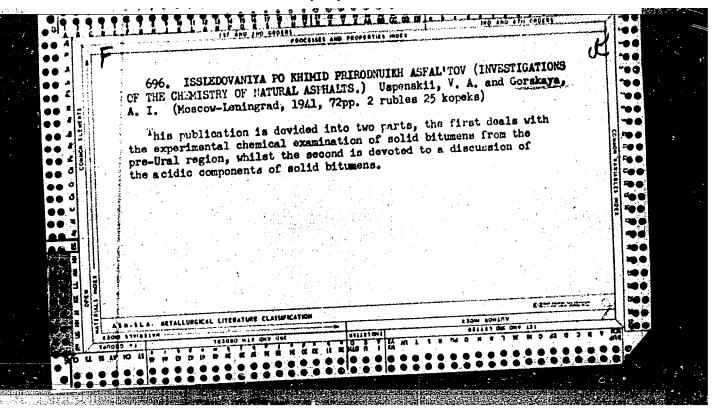
1. Department of Neurophysiology, Nencki Institute of Experimental Biology, Polish Academy of Sciences. Presented by J. Komorski. (CONDITIONED RESPONSE)

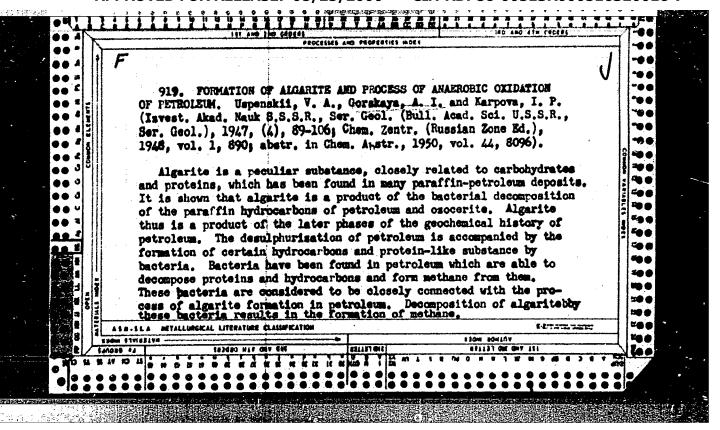












VEBER, V.V., professor; GORSKAYA, A.I.; YEGOROV, Ye.N.; MANUCHAROVA, Ye.A.;
MESSIEWA, M.A.; RECOMBRU, O.A.; REMEZOVA, T.S.; ROMM, I.I.;
SAVICH, V.G.; SKADOVSKIY, S.W.; UL'M, V.A.; FOKIMA, H.I.; VORSH, T.B.;
SHARAROVA, H.T.; SHCHAPOVA, T.F.; EBERZIH, A.G.; YURKEVICH, I.A.

Results of the comprehensive study of contemporary analogues of oilbearing facies. Trudy VHIGHI no.2:111-121 '51. (MLRA 10:4)

(Petroleum geology)

BAKIROV, A.A., doktor nauk, redaktor; VASS) YEVICH, N.B., doktor nauk;

VEBER, V.V., doktor nauk; DVALI, M.F., doktor nauk; DOBRYANSKIY,

A.V., doktor nauk; MAYMIN, Z.L., doktor nauk; MIRCHINK, M.V.,

redaktor; ANDRETEV, P.F., kandidat nauk; AYZENSHTADT, G.Ve.,

kandidat nauk; BOGOMOLOVA, A.I., kandidat nauk; GORSKAVA, A.I.,

kandidat nauk; ZHABREV, D.V., kandidat nauk, redaktor; KAZMIHA,

T.A., kandidat nauk; MESSINEVA, M.A., kandidat nauk, PETROVA,

YU.N., kandidat nauk; RADCHENKO, O.A., kandidat nauk; TATARSKIY,

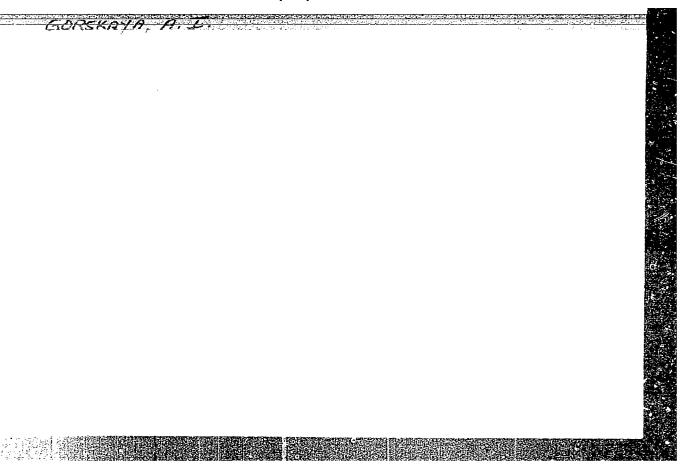
V.T., kandidat nauk; TIKHIY, V.N., kandidat nauk; USPENSKIY, V.A.

kandidat nauk, DYAKOV, B.F., redaktor; SAVINA, Z.A., redaktor;

TROFIMOV, A.V., tekhnicheskiy redaktor.

[Origin of oil] Preiskhoshdenie nefti. Pod red. M.F.Mirchinka i dr. Moskva, Gos.nauchno-tekhn.isd-ve neftianoi i gerno-teplivnel lit-ry, 1955. 483 p. (MLRA 9:1)

1. Chlen korrespondent AN SSSR (for Mirchink)
(Petroleum geology)



CHARLES CONTRACTOR OF THE PROPERTY OF THE PROPERTY OF THE PARTY.

VEHER, V.V., professor; GINZBURG-KARAGICHEVA, T.L.; GIEBOVSKAYA, Ye.A.;
GORSKAYA, A.I.; ZAKHAROV, A.A.; MANUCHAROVA, Ye.A.[deceased];
MEKRTIYEVA, V.L.; ROMM, I.I.; SAVICH, V.G.; TALDYKINA, N.N.,
FOKIMA, N.I.; YURKEVICH; I.A.; MIRCHIMK, M.F., professor, redaktor;
LIVOVA; L.A.; redaktor; TROFIMOV, A.V., tekhnicheskiy redaktor.

[Accumulation and transformation of organic substances in recent sea sediments; in the light of the problem of cil origin] Nakoplenie i procebrasevanie organicheskego veshchestva v sevremennykh merskikh osadkakh; v aspekte problemy proiskhoshdeniia nefti. Sbornik statei ped red. M.F.Mirchink. Moskva, Ges. nauchne-tekhn. izd-ve neftianei i gerno-teplivnei lit-ry, 1956. 342 p. (MLRA 9:6)

1. Vseeoyusnyy mauchno-issledevatel'skiy geolegorasvedechny; institut.
2. Chlen kerrespendent AN SSSR (for Mirchink)
(Saprepelites) (Marine biology) (Petroleum geolegy)

USPENSKIY, Vladimir Alekseyevich; INDENBOM, Fanya Beynusovna; GORSKAYA.

A.I., red.; RAHINA, G.M., vedushchiy red.; YASHCHURZHINSKAYA,
A.B., tekhred.

[Volga-Ural cil-bearing area; geochemical characteristics of petroleums and other bitumens] Volgo-Ural'skaia neftenosnaia oblast'; geokhimicheskaia kharakteristika neftei i drugikh bitumov. Leningrad, Gos.nauchno tekhn. izd-vo neft. i gorno toplivnoi lit-ry, 1957, 302 p. (Vsesciuznyi neftianoi nauchno-issledovatel'skii geologorozvedochnyi institut. Trudy, no.107) (MIRA 12:7) (Volga Valley--Petroleum) (Ural Mountain region--Petroleum) (Ural Mountain region--Bitumen)

VEBER, V.V.; GORSKAYA, A.I.; GLEBOVSKAYA, Ye.A.

Hydrocarbons in Quaternary marine deposits. Gool, nefti 1 no.12:9-15
D '57. (MIRA 17:1)

GORSABYN

1. Vsesoyusnyy nauchno-issledovatel skiy geologo-rasvedochnyy neftyanoy institut.

(Hydrocarbons) (Petroeleum in submerged lands)

GORSKAYA, A. I., SIMAKOVA, T. L., KOLESNIK, Z. A., IB BOLOTSKAYA, O. P., SEMONOVA, N. I. and Strigaleva, N. V.

"The Nature of Oil Changes in Amerobic Conditions under the Influence of Biogenic Factors," p. 315-360 Voprosy obrazovaniya nefti, sbornik statey (Problems of the Origin of Petroleum, Collection of Articles) Leningrad, Gostoptekhizdat, 1958, 389p. Trudy, vyp. 128,

This book, containing four articles written by 11 specialists, reports on the results of studies made on the origin of oil deposits in the Northeastern Caucasus. The program was organized in 1950-55 by VNICRI (All-Union Petroleum Sci. Res. Inst. for Geological Survey)

GORSKAYA, A.I.; KOLESNIK, Z.A.; BOLOTSKAYA, O.P.

"Bitumen" formatien during the decomposition of vegetable matter by anaerobic microflera. Trudy VNIGRI no.123:98-102 '58.

(HIRA 11:12)

(Bitum) (Bacteria, Anaerobic)

SIMAKOVA, T.L.; GORSKAYA, A.I.; KOLESHIK, Z.A.; BOLOTSKAYA, O.P.; SHMONOVA, N.I.; STRIGALEVA, N.V.

Change in petroleums effected by the biogenic factor under anaerobic conditions. Trudy VNIGRI no.128:315-362 '58.

(MIRA 11:12)

(Caucasus, Morthern—Petroleum—Analysis) (Bacteria, Anaerobic)

- 3(8) S0V/9=59-2-13+16

AUTHORS: Veber, V.V. and Gorskaya, A.I.

TITLE: The Azerbaydzhan Algarites (Ob al'garitakh Azerbaydzhana)

(Conclusion)

PERIODICAL: Geologiya nefti i gaza, 1959, Nr 2, pp 60-63 (USSR)

ABSTRACT: The peculiarity of the Kotur-Dag mud volcano in the South-Eastern part of the Caucasus is the continuous emission of

breccia occurring simultaneously with gas temanations. In samples of breccia taken from the contact some it. The crater rim the formation of algarites on the surface of breccia fractures was observed and the material was subjected to analyses. The analysed material is considered to be a typical algorite-like recondary formation of carbohydrate charac-

proved the existence of a facultative-anagrous and from the algarites and from breccia led to the conclusion that the breccia bitumen had a petroleum character and that the algarite bitumen was

a modified kind of breccia bitumen with addition of new formations caused by bacterial activity. The authors admit

Card 1/2 the possibility that the algarites are products from destruc-

The Azerba

Algarites

sov/9-59-2-13-16

tion processes of paraffin hydrocarbons of oil but points to the probability that algarites can also be formed by bacteria using hydrocarbons only in the gaseous phase. The Kotur-Dag algarites are similar to the so called "paraffin dirt" found by American geologists.

There are 2 tables

and 14 references, 7 of

which are Soviet and 7 English

ASSOCIATIONS: VNIGNI, VNIGRI

Card 2/2

CIA-RDP86-00513R000516320016-7" APPROVED FOR RELEASE: 08/25/2000

VERKE, Vasiliy Valerienovich; GORSKAYA, Aleksendra Ivanovna; GLEBOVSKAYA, Ieksterina Aleksendrovna; VERER, V.V., red.; KUZ'MINA, H.W., vedushchiy red.; POLOSINA, A.S., tekhn.red.

[Bitumen formation in Quaternery sediments and the genesis of petroleum] Bitumoobrasovanie v chetvertichnykh osadkakh i genesis nefti. Moskva, Gos.nauchno-tekhn.isd-vo neft. i gorno-toplivnoi lit-ry, 1960. 243 p. (MIRA 13:11)

(Petroleum geology)

GORSKAYA, A.I.; BOLOTSKAYA, O.P.; KITAYEVA, V.N.

Characteristics of organic matter from deposits of the relient Yoldian Sea. Trudy VNICRI no.174:61-47 '61. (MIRA 1604) (Gdoy District-Clay) (Bitumen)

VEBER, V.V.; GORSKAYA, A.I.

Bituminization in the sediments of carbonate facies. Sov. geol. 6 no.6:51-64 Je 63. (MIRA 16:7)

1. Vsesoyuznyy nauchno-issledovatel skiy geologorazvedochnyy neftyanoy institut i Vsesoyuznyy neftyanoy nauchno-issledovatel skiy geologorazvedochnyy institut.

(Rocks, Carbonate)

VEBER, V. V.; GORSKAYA, A. I.

Bitumen formation in fresh water sediments. Geol. nefti i gasa 7 no.4:26-33 Ap 163. (MIRA 16:4)

1. Vsesoyuznyy nauchno-issledovatel skiy geologorazvedochnyy neftyanoy institut, Moskva, i Vsesoyuznyy neftyanoy muchno-issledovatel skiy geologorazvedochnyy institut, Leningrad.

(Bitumen-Geology)

USPENSKIY, V.A.; RADCHENKO, O.A.; GLEBOVSKAYA, Ye.A.; GORSKAYA, A.I.; SHISHKOVA, A.P.; PARPAROVA, G.M.; KOLOTOVA, L.F.; MEL'ISANSKAYA, T.N.; NERUCHEV, S.G., red.

[Principles of the genetic classification of bitumens]. Osnovy geneticheskoi klassifikatsii bitumov. Leningrad, Nedra, 1964. 266 p. (Leningrad, Vsesoiuznyi neftianoi naychno-issledovatel-skii geologorazvedochnyi institut. Trudy. no.230).

(MIRA 17:7)

GORSKAYA, F. M., Cand Vet Sci -- (diss) "Pathological anatomy and certain problems of pathogenesis of arsenic poisoning of farm animals." Kazan', 1957. 20 pp (Min Agr USSR, Kazan' State Vet Inst im N. E. Bauman), 100 copies (KL, 1-58, 120)

- 81 -

CIA-RDP86-00513R000516320016-7 "APPROVED FOR RELEASE: 08/25/2000

R

Category : Diseases of Farm Animals. Toxicoses. Ref Zhur-Biol., No 21, 1958, 97017 Abs. Jour

Author

: USSR

Country

Institut.

: Gorskaya, F. M. : Kazan Institute of Veterinary Sciences. : Pathomorphological Changes in Arsenic Poisonin Title

of Farm Animals.

Orig Pub. : Uch. zap. Kazansk. vet. in-ta, 1957, 65, 121-

133

: No abstract. Abstract

Card:

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Inst : Kazan Veterinary Institute

GORSKAYA, I.A., KOTELNIKOVA, A. V., SOLOMATINA, V. V., (USSR)

"Changes in ATP and other Nucleotide Contents in Rat Liver and Muscle in 2,4-Dinitrophenol Poisioning."

Report presented at the 5th Int'l. Blochemistry Congress, Moscow, 10-16 Aug 1961.

Adenosinephosphoric acid sontent of the rat liver and muscles in dintrophenol poisoning. Biokhimiia 25 no.6:1085-1091 N-D '61.

(MIRA 14:5)

1. Institute of Biochemistry, Academy of Sciences of the U.S.S.R., Moscow.

(PHENOL—TOXICOLOGY) (MUSCLES)

(LIVER) (ADENOSINEPHOSPHORIC ACIDS)

GORSKAYA, I.A.; KOTEL'NIKOVA, A.V.; DRIZOVSKAYA, S.Yu.

Coenzyme A content of various materials of microbiological and animal origin. Biokhimiia 29 no.3:566-569 My-Je 164. (MIRA 18:4)

1. Institut biokhimii imeni Bakha AN SSSR, Moskva.

GORSKAYA, I.A.; KOTEL'NIKOVA, A.V.; DRIZOVSKAYA, S.Yu.; HOL'TS, Kh.F.

Study of 'he conditions of reduction of exidized preparations of coenzyme A. Blokhimiia 30 no.2;315-321 Mr-Ap '65. (MIRA 18:7)

1. Institut blokhimii imeni Bakha AN SSSR, Moskva.

ANDRIANOV, K.A., akademik; FEDIN, E.I.; KUTRELEV, G.V.; GOREMAYA, I.V.

High-resolution proton magnetic resonance of organocyclosilazanes.
Dokl. AN SSSR 163 no.4:877-879 Ag '65. (MIRA 18:8)

1. Institut elementoorganicheskikh soyedineniy AN SSSR.

TO A DESCRIPTION OF THE PERSON OF THE PERSON

SHAFR, V.Z., kand.knimicheskikh nauk; FREYDLIN, L.Kh., doktor khimicheskikh nauk; KHOL'MER, O.M., inzh.; LEBEDEV, I.M., inzh.; Prinimala uchastiye: GORSKAYA, L.A.

Obtaining ethyl ethers of pyrocatechin and resorcin from their phenolates and ethyl chloride. Masl.-zhir.prom. 28 no.4:

(MIRA 15:5)

1. Institut organicheskoy khimii AN SSSR imeni Zelinskogo (for Sharf, Freydlin). 2. Moskovskiy zavod "Slozhnyye efiry" (for Khol'mer, Lebedev). (Ethers)

KLABUNOVSKIY, Ye.I.; BALANDIN, A.A.; MAMEDZADE, R.Yu.; ANTIK, L.V.; GORSKAYA, L.A.

Dependence of polarographic characteristics on the structure of quinones of the triptycene series. Izv. AN SSSR. Ser. khim. no.8:1554 Ag '64. (MIRA 17:9)

1. Institut organicheskoy khimii im. N.D. Zelinskogo AN SSSR.

THE RESERVE THE PROPERTY OF TH

YAKERSON, V.I.; LAFER, L.I.; GORSKAYA, L.A.; RUBINSHTEYN, A.M.

Chromatographic study of physical and clemical adsorption of hydrocarbons on an aluminum-chromium-potassium catalyst. Izv.AN SSSR.Ser. khim. no.9:1725-1726 S *64.

1. Institut organicheskoy khimii im. N.D.Zelinskogo AN SSSR.

9,4340

80**12**8 1/141/59/002/06/009/024

AUTHORS:

Aleksandrov, N.V., Gorskaya, E.B., Gershenzon, Ye.M.

and Etkin, V.S.

TITLE:

Control of the Amplitude and Phase of an Electromagnetic

Wave in a Waveguide by Means of Germanium Plate

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Radiofizika, 1959, Vol 2, Nr 6, pp 911 - 914 (USSR)

ABSTRACT:

Experiments were conducted on phase and amplitude modulation of an electromagnetic wave incident on a germanium plate inside a waveguide by controlling the concentration of free-charge carriers in the germanium. The concentration of free-charge carriers changes the permittivity of the semiconductor, thus influencing the absorption of electromagnetic waves in the semiconductor. The control of concentration was achieved by using the

Hall effect in a germanium plate having different velocities

of recombination on its opposite surfaces. High-resistance (35 - 40 \(\Omega\).cm) antimony-alloyed n-type

germanium was used. Concentration of free-charge carriers

N was approximately 10 per cm; permittivity was

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Control of the Amplitude and Phase of an Electromagnetic Wave in a Waveguide by Means of Germanium Plate

approximately 16. By varying the electrical current flowing through the germanium plate, both the modulus and the phase of the reflection coefficient, as well as the phase of the passing wave, can be varied. In this way, a phase modulation can be achieved, the percentage of which for a given material depends upon the phase difference caused by reversal in current at a given current value. An audio-frequency generator and a pulse generator were used as signal sources. Modulation percentage was independent of the period of modulation voltage up to 0.1 µs pulses. Efficiency of the modulator can be increased considerably by more careful treatment of the plate surfaces to increase the difference in the recombination rate on the surfaces. There are 4 figures and 11 references, 6 of which are English, 1 German and 4 Soviet.

Card2/3

80128 S/141/59/002/06/009/024

Control of the Amplitude and Phase of an Electromagnetic Wave in a Waveguide by Means of Germanium Plate

ASSOCIATION: Moskovskiy pedagogicheskiy institut im. V.I. Lenina (Moscow Pedagogical Institute imeni V.I. Lenin)

SUBMITTED: June 8, 1959

Card 3/3

TINYAKOV, G.G.; GORSKAYA, L.F.

Variability of muscular tissue in a table salt solution. Izv. vys. ucheb. sav.; pishch. tekh. no.3:26-30 \$58. (MIRA 11:9)

1. Moskovskiy tekhnologicheskiy institut myasnoy i molochnoy promyshlennosti. Kafedra anatomii i gistologii sel'skokhozyaystvennykh shivotnykh i Kafedra tekhnologii myasa.

(Meat--Preservation)

PROKOF'YEVA-BEL'GOVSKAYA, A.A.; GORSKAYA, L.F.; DUBININA, L.G.; YATROVA, G.V.

Radiation injury of chromosomes in the culture of embryonic fibroblasts of man. Radiobiologiia 4 no.5:708-714 64. (MIRA 18:4)

1. Institut biologicheskoy fiziki AN SSSR, Moskva.

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S/181/61/003/006/025/031 B102/B214 X

AUTHORS:

Belova, A. P., Gorskaya, L. G., and Zakgeym, L. N.

TITLE:

The electric properties of thin oxide layers on aluminum, tantalum, and sirconium

PERIODICAL: Fisika tverdogo tela, v. 3, no. 6, 1961, 1851 - 1858

TEXT: Rectifying metals with thin oxide layers in electrolytic cells have lately been investigated many times, partly because such oxide coated metals are finding more and more applications in radio engineering (e. g. construction of condensors), and partly because they exhibit interesting and often anomalous physical properties. The valve action and the asymmetry of the electric conduction have been investigated before for many systems including those in which an oxide semiconductor was used as the second electrode. The valve action has also been investigated repeatedly and different authors have made different assumptions about its origin, most of them assuming the appearance of a p - n junction. To learn more exactly the rectification mechanism and the asymmetry of the electric conduction the authors developed a new method for measuring the Card 1/6

The electric properties...

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electrical characteristics of thin oxide layers on valve metals in cells where the second electrode is a metal. The subject to such investigations is the design of electrolyte - free condensors of small size having high capacities at low working voltages, a fine oxide layer serving as the dielectric. However, there are many difficulties in realizing this project. The method of the authors is the following: A foil of the valve metal is oxidized in an electrolytic cell; a plate of 6.5.6.5 mm is out out and pasted on a ceramic plate having two silver grooves. The contact between the oxidized metal and a silver groove is accomplished by means of a conducting silver varnish. The second metal coating is a thin metal layer (e. g. Al) sputtered on to the oxide layer in vacuo. It is important to insulate the sputtered metal coating from the valve metal on the ceramic plate, which is accomplished by means of a "bridge" of insulating resin (see Fig. 1). Samples with oxide layers of Al203, Ta205, and ZrO2 were prepared according to this method, the second electrode being Al in all cases. The temperature dependence of the capacity and of the loss angle at 1000 cps were measured for such samples. The capacity increases linearly with temperature for all the three oxides. The temperature Card 2/6

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The electric properties...

coefficient of the capacity for Ta205 was 250.10-6 deg-1 which agrees with the result of Sloan and Berry; the value for Al203 was 440.10-6 deg and for ZrO_2 310·10⁻⁶ deg⁻¹. tan δ for all the oxides at 20°C was 5-10·10, and increased exponentially with temperature. The I(t)-diagram shows that the leakage current in the blocking (transmitting) direction decreased (increased) rapidly and after this remained independent of or slightly dependent on time. Fig. 3 shows for all the three samples the dependence of resistivity on the field strength, ln Q = f(E); Fig. 4 shows $\ln q = f(1/T)$, where T is the absolute temperature. The table. gives the resistivity values for E = 50 kv/mm of the oxide layers (1) in the blocking (A) and the transmitting (B) direction. The results obtained justify the assumption made by the authors that a p-i-n or ap-n junction is formed in the oxide layer or on the oxide - metal interface. Further studies in an electrolytic cell showed that there existed in fact a p-i-n junction with a thin p-type semiconducting layer on the side of the electrolyte and a thin n-type semiconducting layer on the side of the metal. These two layers are separated by the i-layer of the metal oxide which shows regular stoichiometric composition. Problems of the recti-Card 3/6

The electric properties... 24928

8/181/61/003/006/025/031 B102/B214

fication mechanism are finally discussed. B. M. Tareyev and M. M. Lerner are mentioned. There are 5 figures, 1 table, and 14 references: 2. Soviet-bloc and 10 non-Soviet-bloc. The most important references to English-language publications read as follows: R. J. Taylor, H. E. Haring Journ. of Electrochem. Soc., 103, 11, 611, 1956; 99, 1, 30, 1952; J. Sasaki, Phys. a. Chem. of Sol., 13, 3/4, 177, 1960; D. Sloan, R. Berry. Proc. IRE, 47, 6, 1070, 1959.

SUBMITTED: December 26, 1960 (initially), January 24, 1961 (after revision)

Опенаный Влой Ф	20° C		100° C	
	запирающее поправление А	преведящее направление В	запрающее непрепление	вреведащее направление В
Ta ₂ O ₃ ZrO ₂ Al ₂ O ₃	5 · 1018 7 · 1014 7 · 1014	1 · 1018 5 · 1019 1 · 1014	2 · 1014 1 · 1014 6 · 1014	7 · 1015 5 · 1012 1 · 1012

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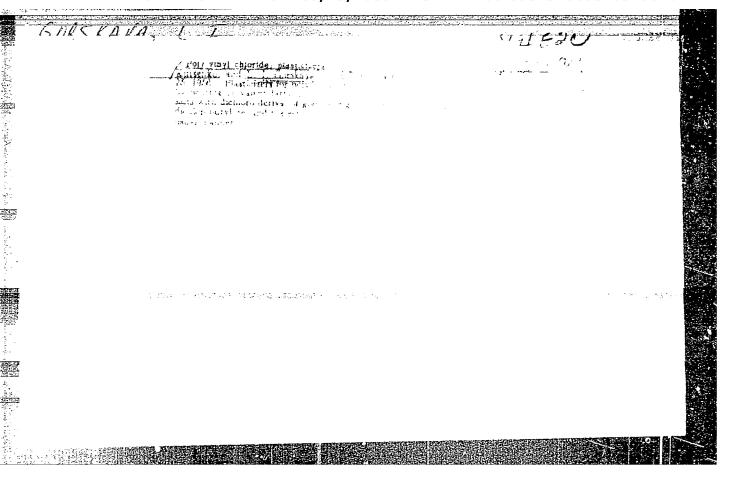
GORTHAYA, L.I.

YEROSHEVSKIY, T. I., CORSKAYA, L. I.

Penicillin therapy in diseases of the cornea and vascular tract. Vest. oft. 29:6, Nov.-Dec. 50. p. 6-10

1. Of the Eye Clinic (Director - Prof. T. I. Yeroshevskiy), Stalingrad Medical Institute.

CIMIL 20, 3, March 1951

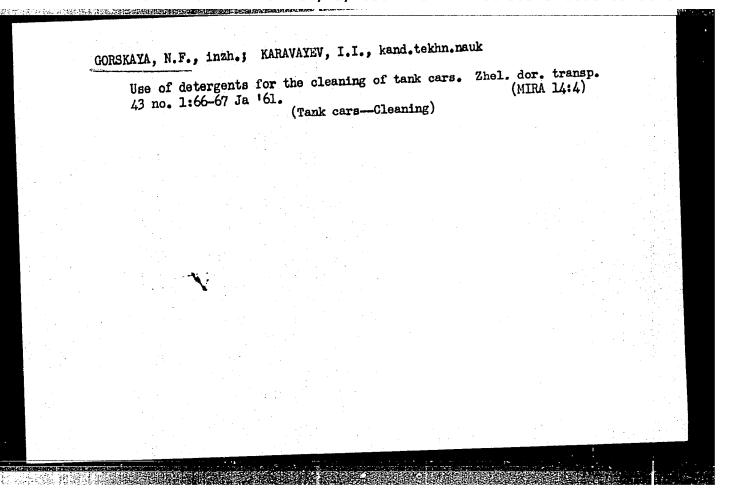


TO THE STREET STREET

LOPATIN, P.V.; KATS, A.M.; YARANTSEVA, Ye.P.; FEDOROVA, T.M.; GORSKAYA, L.V.

Experimental study of the disinfection of prescriptions and paper by means of ultraviolet irradiation. Apt. delo 14 no.6:60-64 N-D 165.

1. Farmatsevticheskiy fakul tet I Moskovskogo ordena Lenina meditsinskego instituta imeni I.M.Sechenova; Nauchno-issledovatel skaya aptechnaya stantsiya Moskovskogo gorodskogo aptekoupravleniya i Sanitarno-epidemiologicheskaya stantsiya Moskovy.



KORAVAYEV, Ivan Ivanovich; CORSKAYA, Nina Fedorovna; FILLIPOVA, L.S., red.; BRAYLOVSKIY, N.G., red.

[Mechanized treatment of tank cars in washing and steaming stations] Mekhanizirovannaia obrabotka tsistern na promyvochno-proparochnykh stantsiakh. Moskva, Izd-vo "Transport," 1964. 26 p. (MIRA 17:8)

GORSKAYA, N.G.

11(4) p.3

PHASE I BOOK EXPLOITATION

SOV/1319

Akademiya nauk SSSR. Bashkirskiy filial

Khimiya sera-organicheskilk soyedineniy, soderzhashchikhsye v neftyakh i nefteproduktakh; materialy II nauchnoy sessii (Chemistry of Sulfur-Organic Compounds Contained in Petroleum Products; Papers of the 2nd'Scientific Session) v. 1. Ufa, Izd. Bashkirskogo filiala AN SSSR, 1958. 228 p. 1,500 copies printed.

Ed.: Sudarkine, K.I.; Editorial Board: Ayvazov, B.R., Mashkina, A.V., Obolentsev, R.D. (Resp. Ed.), Rozhdestvenskiy, V.P., and Shanin, L.L.; Tech. Ed.: Rakhimov, R. Sh.

PURPOSE: This book is intended for petroleum specialists of scientific research establishments, educational institutions, and petroleum refining plants.

COVERAGE: This collection is the first of a multivolume publication on the results of scientific research work carried out in the Soviet Union on the chemistry and technology of sulfur- and nitrogen-organic compounds during the period 1954-1955; and according to a coordinated research project outlined in 1956 by the sponcering aagency (Bashkir Branch, AS USSR).

Card 1/15

"APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R000516320016-7

SOV/1319 Chemistry of Sulfur: Organic Compounds (Cont.) agency (Bashkir Branch of the Academy of Sciences USSR). Along with the 22 reports published herein, abridged versions of questions, answers and discussions are given wherever the editors deem it expedient. TABLE OF CONTENTS: 3 From the Editors Opening Address by the Head of the Chemistry Department of the Bashkir Branch of the Academy of Sciences, USSR, Professor R.D. Obolentsev 5 The author states that three-quarters of the petroleum drilling in the USSR is concentrated in eastern ("ynekaykazskiy" - outside the Caucasus)oil fields; that these deposits are sulfurous; and that research on the exploitation of these deposits is insufficient. 8 Obolentsev. R.D. Sulfur-Organic Compounds of Petroleum Origin This article points out the need for a new process of directly distilling sulfurous petroleum, which process, it is stated, may be based on the thermostability of sulfur-organic compounds.

Obolentsev, R.D., and B.V. Ayvazov, Cyclic Sulfides in the Kerosene Distillate of Petroleum From the Carboniferous Deposits of Tuymazy Oilfields 19

Card 2/15

Chemistry of Sulfur-Organic Compounds (Cont.)

SOV/1319

Sulfur-organic compounds were separated from kerosene fractions of petroleum and physical constants (including molecular formulas, refractive indices, etc.) were determined corresponding to mono-, bi- and tricyclic sulfides. Experimental data on the fractional distillation of these compounds (which vaporized at 209-210°C) compared with known data identified them as 3-butylthiophanes [tetrahydro 3-butylthiophanes]. A.D. Biktasheva and N.S. Lyubopytova carried out the spectrographic analyses.

Ivanova, N.M., Ch. Kh. Mirkhaydarova, and Ya. I. Nel'kenbaum (Ishimbayskiy neftepererabatyvayushchiy zavod--Ishimbay Oil Refining Plant)
Installation for Chromatographic Separation of Sulfur-Containing Compounds
From Petroleum Distillates
Illustrations, schematic diagrams of apparatus and a table of data are

29

Illustrations, schematic diagrams of apparatus and a table of data are given for the chromatographic analysis of the sulfur content of Ishimbay petroleum after pyrolysis.

Gorskaya, N.G. (Novo-Ufinskiy neftepererabatyvayushchiy zavod -- New Oil Refining Plant at Ufa) On the Problem of Constructing Larger Chromatographic Installations for Separating Concentrates of Sulfur-Organic Compounds From Petroleum Products 38

Card 3/15

①

Chemistry of Sulfur-Organic Compounds (Cont.)

80V/1319

Ten tons of petroleum material with a sulfur content of 0.15 percent was processed by the chromatographic method with a separation yield of 70 percent concentration of sulfur-organic compounds amounting to 80 liters after 9 months (approximately) of continuous operation.

Skripnik, Ye. I. (Kuybyshevskiy industrial'nyy institut -- Kuybyshev Industrial Institute). Thermal Stability of Sulfur-Organic Compounds of Sulfur-bearing Petroleum From Kuybyshevskaya Oblast'

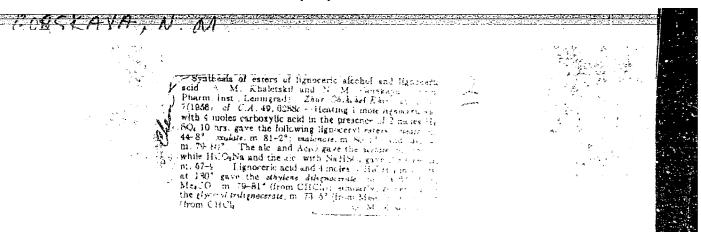
43

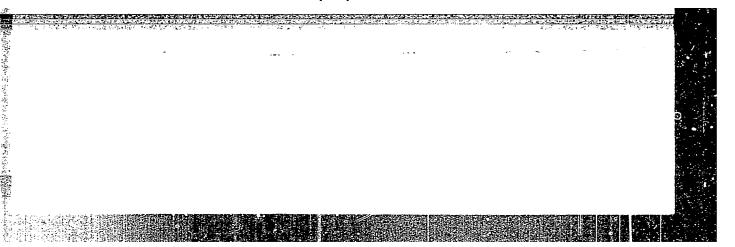
According to the author, Knybyshevskaya oblast' ranks third in extracting and refining petroleum in the Soviet Union during the Sixth Five Year Plan. Separation of sulfur-organic compounds from the highly sulfurous petroleum of this region (3-4.5 percent; tar - up to 22 percent; and in asphalt-tar - up to 100 percent S) was accomplished by two methods; 1) decomposition of complex sulfur-organic compounds 2) reaction of elementary sulfur with hydrocarbons. The first process took place at 350° C and gave maximum sulfur-compound formation at 400° C and higher. The second process took place at 180 - 220° C with a high yield of sulfur compounds. Tabular results of these processes are given.

Obolentsev, R.D. and B.V. Ayvazov, Thermal Stability of Sulfur-Organic Compounds Contained in Petroleum From the Tuymazy Oilfield

51

Card 4/15





40032 S/258/62/002/002/007/018 1028/1228

26.7181

AUTHOR:

Kosterin, S. I., Koshmarov, Yu. A. and Gorskaya, N. M. (Moscow) Experimental investigation of the heat exchange of a plane plate in a supersonic rarefied

TITLE:

TEXT: The paper presents the results of an experimental investigation of the heat transfer of a plane plate wetted by a supersonic rarefied gas stream under a zero angle of attack. The investigation was designed in view welled by a supersume rarened gas stream under a zero angle of attack. The investigation was designed in view of the fact that the intermediate region of flow of gases, lying between the continuum region and the free-molecular region had not been studied sufficiently, and that the various approximation methods used to deteror the fact that the intermediate region or now or gases, tying between the continuum region and the needs molecular region, had not been studied sufficiently, and that the various approximation methods used to determine heat evaluation had not been studied sufficiently, and that the various approximation methods used to determine heat evaluations in this region and determine heat evaluations in this region and determine heat evaluations are studied as a second evaluation and the support of the consequence of the continuum region and the needs to determine heat evaluations and the support of the continuum region and the needs to determine the support of the continuum region and the needs to determine the support of the continuum region and the needs to determine the support of the continuum region and the needs to determine the support of the continuum region and the needs to determine the support of the continuum region and the needs to determine the support of the continuum region and the needs to determine the support of the continuum region and the needs to determine the support of the continuum region and the needs to determine the needs to determin mine heat exchange in this region needed a careful experimental check. The supersonic stream was created by means of a nozzle of variable shape, and its plane isentropic nucleus, of dimensions 30 × 30 mm, was used in the experiments. The six was heated before entering the normal in the experiments. The six was heated before entering the normal in the experiments. the experiments. (The air was heated before entering the nozzle in the experiments on heat exchange). Silver or copper plates of different dimensions were used, their thickness being such that the ratio of the thickness to the mean free path was 0.11–0.05. The temperature at the center of the plates was measured by a thermocouple. The parameters of the gas stream were also measured. The recovery factor, the temperature of the avantage of heat transfer was a transfer were also measured. The recovery factor of the gas stream were also measured. The parameters of the gas stream were also measured. The recovery factor, the temperature of tecovery, and the experiments coefficient of heat transfer were determined. The range of variation of the parameters during the experiments

Card 1/2

CIA-RDP86-00513R000516320016-7" **APPROVED FOR RELEASE: 08/25/2000**

Experimental investigation of...

S/258/62/002/002/007/018 1028/1228

was: M = 2.6 - 3.2, Re = 20 - 240. Results are compared with the results obtained from different theoretical formulas based on the continuum model. No theoretical solution is found to be satisfactory. There are 5 figures. The most important English-language reference are as follows: Schaaf, S. A. Theoretical Considerations in Rarefied Gas Dynamics. Heat transfer... a Symposium, Univ. Michigan Engng. Res. Inst. Bull., 1953

SUBMITTED:

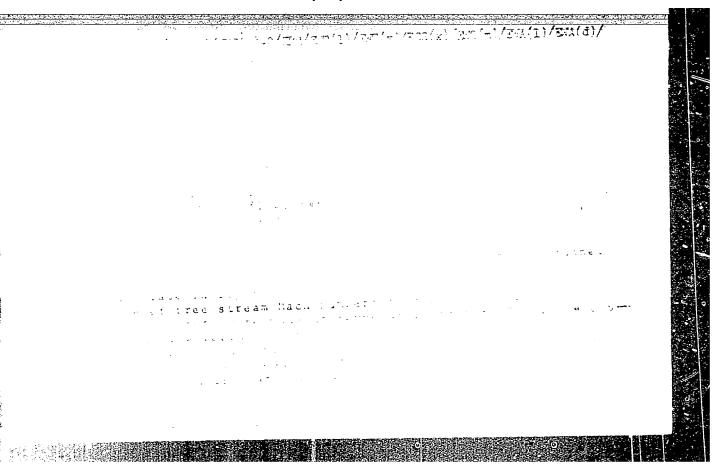
November 22, 1961

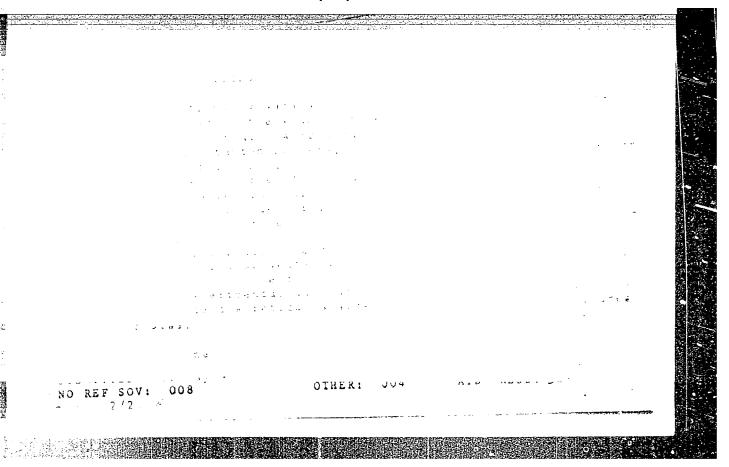
Card 2/2

GORSKAYA, N.M.; KOSTERIN, S.I.; KOSHMAROV, YU.A. (Moscow):

"Convective heat transfer on a plate in a supersonic rarefied gas

report presented at the 2nd All-Union Congress on Theoretical and Applied Mechanics, Moscow, 29 Jan - 5 Feb 64.





L 16160-66 EWT(1)/EWP(w)/ETC(F)/EPF(n)-2/EWG(m)/EW/(d)/FCS(k)/EWA(1)
ACC NR: AT6006910 WW/EM/GS SOURCE CODE: UR/0000/65/000/000/0170/0188

AUTHOR: Koshmarov, Yu. A.; Gorskaya, N. M.

ORG: Institute of Mechanics, AN SSSR, Moscow (Institut mekhaniki AN SSSR)

TITLE: Heat transfer to a flat plate in supersonic rarefied air flows

SOURCE: Teplo- i massoperenos. t. II: Teplo- i massoperenos pri vzaimodeystvii tel s potokami zhidkostey i gazov (Heat and mass transfer. v. 2: Heat and mass transfer in the interaction of bodies with liquid and gas flows). Minsk, Nauka i tekhnika, 1965, 170-188

TOPIC TAGS: aerodynamics, thermodynamics, heat transfer, supersonic flow, hypersonic flow, rarefied gas, heat transfer coefficient, molecular interaction

ABSTRACT: An investigation was conducted in a vacuum <u>aerodynamic runnel</u> described previously (Yu. A. Koshmarov, Same source, p. 157; S. I. Kosterin, Yu. A. Koshmarov, N. M. Gorskaya, Inzhenernyy zhurnal, v. 2, no. 2, 1962.) to determine heat transfer and equilibrium temperatures of a flat plate in supersonic rarefied air flows at zero angle of attack. The supersonic flow of Mach 4 to 9 was produced by one expansible and three conical nozzles. Twelve model plates were used for investigat-

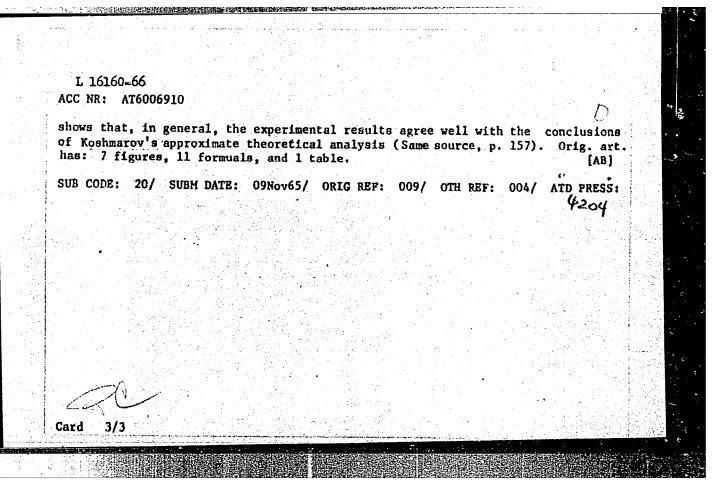
Card 1/3

L 16160-66

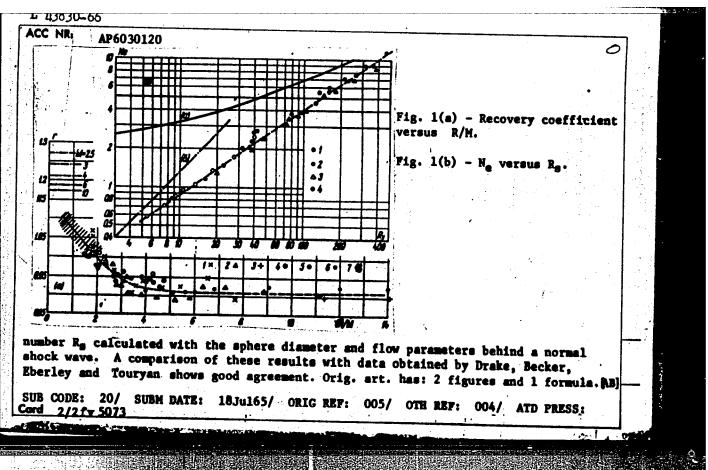
2/3

ACC NR: AT6006910

ing the average heat transfer coefficient and average equilibrium temperatures, which were determined by the method used by Kosterin, Koshmarov, and Gorskaya in the study cited above. Comparison of measured heat fluxes with the relations obtained by A. Oppenheim (Mekhanika, no. 5, 1953) for free molecular flow made it possible to evaluate the values of the accomodation coefficient. Measurements of local heat transfer coefficients were made in the Mach range from 3.8 to 8.1, with temperature ratios T /T $_{00}$ = 0.62 to 0.83, and with the interaction parameter χ ranging from 4 to 26%2. The minimum and maximum values of the rarefaction parameter eter $\sqrt{Re_x}/M_{\infty}$ were 2.5 and 4, respectively, while the Knudsen number varied from 4.2 to 1.2. Average equilibrium temperatures were measured in the Mach range from 2.5 to 8.9, with the rarefaction parameter varying from 1.3 to 8, and maximum and minimum values of the interaction parameter of about 40 and 1.5, respectively. The average value of the Knudsen number was about 0.7-0.8. Average heat transfer coefficients were investigated in the Mach range from 2.6 to 9, with temperature ratios $T_{\omega}/T_0 = 0.56-0.83$, rarefaction parameters & 0.7 to 5, and interaction parameters from 3 to 49. Discrepancies between experimental and theoretical data were observed. Their magnitude increased with decreasing values of the rarefraction parameter and their sign depends on the Mach number, that is, the experimental results were smaller at low M and higher at high values M than the theoretical data. A detailed analysis of the results presented in graphs and tabular form



L 43830-66 EWT(1)/EWP(m) WW ACC NR: AP6030120 SOURCE CODE: UR/0421/66/000/004/0175/0177 AUTHOR: Koshmarov, Yu. A. (Moscow); Gorskaya, N. H. (Moscow) 69 B ORG: none ₹/ TITLE: Heat transfer and equilibrium temperature of a sphere in a supersonic rarefied SOURCE: AM SSSR. Izvestiya. Mekhanika zhidkosti i gaza, no. 4, 1966, 175-177 4. TOPIC TAGS: supersonic aerodynamics, supersonic flow, hypersonic flow, aerodynamic heat transfer, heat transfer coefficient, rarefied gas , HEAT TRANSFER IN ABSTRACT: Results of experimental investigations of the heat transfer and equilibrium temperature of a sphere in supersonic rarefied air flows are presented and the experimental setup and measuring techniques are described. The experiments were carried out with four spheres of electrolytic copper from 2.9 to 19.75 mm in diameter in a low-density wind tunnel. The experiments associated with investigation of the equilibrium temperature were separated into three groups according to Mach number: 1 - H = 2.25 to 2.6; 2 - 5.5 to 6.25; 3 - 7.5 to 8 with the results presented in Fig. 1(a) as the dependence of the recovery coefficient r on AR/M. The investigations of heat transfer were carried out in the Mach range from 6.2 to 6.35 and the results are presented in Fig. 1(b) as the dependence of the Nusselt number Ne on the Reynolds and the literature their ov 1944 toak teet . . artic and waves



GORSKAYA, N. S. (Cand Tech. Sci.) (at IAT), PETROV, V. V. (Cand. Tech. Sci)

"Principle of action, constructive fulfilment and results of theoretical and experimental research on fast-moving electro-pneumatic servo-mechanisms."

paper read at the Session of the Acad. Sci. USSR, on Scientific Problems of Automatic Production, 15-20 October 1956. Automatika i telemekhanika, No. 2, p. 182-192, 1957.

9015229

Gorskaya, N. S. (Moscow) AUTHOR: The Influence Exerted by the Zone of Linearity and the Regions of Saturation Upon the Dynamics of a Two-Cascade TITLE:

Servomechanism (Vliyaniye zony lineynosti i uchastkov nasyshcheniya na dinamiku dvukhkaskadnogo servomekhanizma)

103-19-5-4/14

Avtomatika i Telemekhanika, 1958, Vol. 19, Nr 5, PERIODICAL:

pp. 418-434 (USSR)

THE RESERVE OF THE PROPERTY OF

A characteristic of the servomotor, more typical than in references 4 and 5, is investigated here. It is expressed ABSTRACT:

by a nonlinear function with zones of linearity and regions of saturation. From a technical point of view the problem here consists of the obtaining of recommendations for a rational design of the two-cascade servo-mechanism which is schematically represented here. From a mathematical point of view the problem consists of the investigation of the system in the presence of a relay characteristic with loop and a nonlinear characteristic with zones of linearity and saturation. This makes it possible to com-

pare the influence of the linearity zones Qinear and Card 1/6

THE RESERVE OF THE PROPERTY OF

The Influence Exerted by the Zone of Linearity and the Regions of Saturation Upon the Dynamics of a Two-Cascade Servomechanism

103-19-5-4/14

of the insensitiveness regions μ_{ξ} upon the stability of the system and upon its self-oscillations. A compressed-air hydraulic servomechanism (References 4-6) may serve as an example for a servomechanism of the type investigated here. - The investigations are performed according to the point-transformation method. The nonlinear problem on the influence of the characteristic with the linear zone and the regions of saturation in the second cascade upon the free oscillations of the servomechanism is entirely investigated. The analytical formulae for the critical values of the fundamental servomechanism parameters are given. On the basis of the performed investigations the following is found: 1) In the presence of a relay characteristic with a loop in the first amplification cascade and a nonlinear characteristic with zones of linearity and saturation in the second amplification cascade the two-cascade servomechanism has two critical parameter ratios. If the width of the linear zone is

Card 2/6

The Influence Exerted by the Zone of Linearity and the Regions of Saturation Upon the Dynamics of a Two-Cascade Servomechanism 103-19-5-4/14

the critical parameter ratio has the same shape as in reference 5. But if the width of the linear zone is

the critical ratio has the form of (20). 2) The presence of a nonlinear characteristic with saturation in the second cascade leads to the essential difference of the dynamics of such a servomechanism as compared to the dynamics of a servomechanism with a purely linear control element in the second cascade (Reference 5) or with a relay element with a zone of intensitiveness (Reference 4). - 3) If the system at a given slope of the linear part of the characteristic of the control element, possesses self-oscillations exceeding this zone, the amplitude of

Card 3/6

The Influence Exerted by the Zone of Linearity and the Regions of Saturation Upon the Dynamics of a Two-Cascade Servomechanism

103-19-5-4/14

self-oscillation will be smaller than in the case of a merely linear characteristic. This is explained by the fact that the slope of the characteristic decreases with an increase in the Q-coordinate. The introduction of saturation regions into the characteristic of the control element of the second cascade leads to a reduction of the critical magnitude of the zone of insensitiveness, in case that the linear zone was selected according to the condition:

Slinear < 2 mg

4) The critical parameter ratio for the case Slinear

which is determined by (20) has the following shape:

Card 4/6

The Influence Exerted by the Zone of Linearity and the Regions of Saturation Upon the Dynamics of a Two-Cascade Servomechanism

103-19-5-4/14

It is shown that the zone of linearity narrows the region of self-oscillations in the case of values of the zone of insensitiveness of the first cascade \$\lambda_{\mathbb{V}} > 0,04\$. When \$\lambda_{\mathbb{V}} = 0,04\$, the zone of linearity in the second cascade widens the region of self-oscillation in comparison to the region of self-oscillation in the case of a zone of insensitiveness \$\lambda_{\mathbb{C}}\$. The work was performed under the direction of \$\mathbb{V}\$. V. Petrov denotes the relative magnitude of the zone of insensitiveness. Clinear lative quantity of the linearity zone of the relay:

\$\begin{align*} T_1 \\ \mathbf{T} \\m

Card 5/6

The Influence Exerted by the Zone of Linearity and the Regions of Saturation Upon the Dynamics of a Two-Cascade Servomechanism

103-19-5-4/14

There are 10 figures and 6 references, all of which are Soviet.

SUBMITTED:

March 28, 1957

AVAILABLE:

Library of Congress

1. Servomechanisms—Design 2. Servomechanisms—Stability

3. Servemotor-Inalysis

Card 6/6

CIA-RDP86-00513R000516320016-7 "APPROVED FOR RELEASE: 08/25/2000

AUTHOR:

Gorskaya, N.S. (Moscow)

103-19-6-3/13

TITLE:

The Dynamics of an Electric Relay Servomechanism With a Load Changing Proportionally to Motion (Dinamika releynogo elektricheskogo servomekhanizma pri nagruzke, izmenyayushcheysya

proportsional'no khodu)

PERIODICAL:

Avtomatika i telemekhanika, 1958, Vol 19, Nr 6,

PP 540 - 557 (USSR)

ABSTRACT:

The present work was performed under the direction of B.N. Petrov and V.V.Petrov. The author was advised by N.A.Fufayev. The dynamics of an electric servomechanism is on several assumptions investigated here. Thus the investigation deals with a nonlinear system the motion of which is described by a complete second-order differential equation if the right part is a relay--function which expresses a characteristic with a loop and a zone of insensitiveness. According to the method of point transformation (Reference 1) a complete solution of the problem is given here: 1) The structure of the splitting up of the phase--plane into trajectories is investigated. 2) The distribution of the parameter-space to domains of different qualitative behavior of the system, i.e., to the domains corresponding to the

Card 1/3

The Dynamics of an Electric Relay Servomechanism With 103-19-6-3/13 a Load Changing Proportionally to Motion

presence or the absence of self-oscillations in the servome-chanism is found. 3) Analytical expressions of the critical ratios among the parameters of the servomechanism are obtained. 4) The stability of the periodical solutions is investigated. On the basis of the investigations the following is stated: 1) In a relay-servomechanism the motion of which is expressed by a complete second-order differential equation with a right part in the form of a relay-function which corresponds to a characteristic with a loop and a zone of insensitiveness two different critical parameter ratios exist: in the case of high load-formula (28) and in the case of small load-formula (35). The system is characterized by three parameters γ , $\mu_{\rm E}$, Δ , γ denotes the load factor, $\mu_{\rm E}$ the zone of insensitiveness, Δ the width of the loop of the control element. 2) From the distribution of the parameter $(\gamma, \Delta, \mu_{\rm E})$ -space (usually

Card 2/3

 $\mu_{\rm E} \pm \frac{\Delta}{2} \left(\frac{1}{\gamma} \right)$ to domains of a different qualitative behavior of the system follows that the load changing proportionally to

The Dynamics of an Electric Relay Servomechanism With 103-19-6-3/13 a Load Changing Proportionally to Motion

motion is beneficial to the occurrence of self-oscillations in the system. There are 11 figures and 8 references, 5 of which are Soviet.

SUBMITTED:

July 4, 1957

1. Electric relays--Applications 2. Electric servomechanisms--Theory

Card 3/3

PHASE I BOOK EXPLOITATION SCV/3754

Gorskaya, Nina Sergeyevna, Inessa Nikolayevna Krutova, and Vladislav Yul'yevich Rutkovskiy

Dinamika nelineynykh servomekhanizmov (Dynamics of Nonlinear Servomechanisms)
Moscow, AN SSSR, 1959. 318 p. Errata slip inserted. 3,300 copies printed.

Sponsoring Agency: Akademiya nauk SSSR. Institut avtomatiki i telemekhaniki.

Ed.: B.N. Petrov, Corresponding Member, Academy of Sciences USSR Ed. of Publishing House: Ye. N. Grigor'yev; Tech. Ed.: P.S. Kashina.

PURPOSE: This monograph is intended for scientific workers and engineers studying or designing automatic control systems and their components. Ch. II is of special interest to persons studying the phase plane method and the method of point transformations.

COVERAGE: The monograph examines certain specific types of electropneumatic, hydraulic, and electric servomechanisms in order to investigate the dynamics of nonlinear servomechanisms on the basis of the method of phase space and of the

Card 1/7

theory of point transformations. Section 1 of 4-6 of Ch. VII were written by N.S. Gorskaya; 2-5 of Ch. I by I.N. Krutova; and Ch. II and by V.Yu. Rutovskiy. The authors thank N. A. There are 130 references: 100 Soviet, 24 Eng	V, and sections 1-3 of Ch. VII	
PABLE OF CONTENTS:		
Foreword		
COLCHOIM	3	
Introduction	5	
Ch. I. Certain Types of Servomechanisms and The 1. Electropheumatic servomechanism EPS-III w	ir Equations of Motion 15 ith vibration lineariz-	
and monthlight leedback bate	•	
2. Hydraulic servemechanism of the "Siemens"		
 Control mechanism of the "Ascania" autopi Electric servomechanism of the "Rheintoch system 	lot ter" stabilization	- ·.
5. Vibration servomechanism of an electric a	utopilot 52	
	• •	

8/103/60/021/05/07/013 B007/B011

AUTHOR:

Gorskaya, N. S. (Moscow)

TITLE:

Effect of Speed Coupling on the Dynamics of a Relay

Servosystem With Load

PERIODICAL:

Avtomatika i telemekhanika, 1960, Vol. 21, No. 5,

pp. 601 - 614

TEXT: An electric servosystem is used in automatic control systems in which a special relay circuitais used to change the direction of rotation from 24 to 48 v by switching over the feed voltage of the motor with separate excitation. In order to reduce the static error caused by friction, the servosystem is constructed in the form of an oscillating system. Oscillations are caused due to the unsymmetrical characteristic of the control relay which has a normally closed contact. Fig. 1 shows the circuit diagram of a servosystem with rigid and speed feedback. It is described here. The servosystem is schematically shown in Fig. 4, and the respective formula (9) is derived. It is shown that the

Card 1/3

VC

Effect of Speed Coupling on the Dynamics of a Relay Servosystem With Load

S/103/60/021/05/07/013 B007/B011

linear part of the servosystem is expressed by a complete equation of the 2nd order. The structure of the phase space is investigated, for which purpose formula (9) is transformed into (11). It can be seen therefrom that the phase space of the system investigated is a doublefolium phase plane. In folium 1 the motion of the system is expressed by differential equations, formula (12), and in folium 2 by formula (2). The problem in finding the bordering cycles and the investigation of the decomposition of the phase space is shown to consist in the investigation of the point transformation of the straight line L (Fig. 5) into itself (Ref. 1). Both foliums of the phase plane, namely, for the case of a low damping and for that of a strong damping, are investigated. The diagrams of point transformation are shown in Figs. 9 and 10. It can be seen therefrom that there always exists a stable bordering cycle. i. e., that oscillations are always present in the system. The dependence of the amplitude and time of the half-periods of oscillations on the system parameters, among them also on the coefficient of the speed feedback, is determined: formulas (18), (19), (20) and (21). Summing up: If there is a loop in the relay characteristic of the control member, the servosystem with load whose linear part is described by a com-

Card 2/3

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CIA-RDP86-00513R000516320016-7

Effect of Speed Coupling on the Dynamics of a Relay Servosystem With Load

8/103/60/021/05/07/013 B007/B011

plete equation of the 2nd order tends toward the oscillating state with arbitrary, constructionally admissible parameters of the servosystem. N. A. Fufayev and A. S. Alekseyev assisted the author in perusing the manuscript. There are 10 figures and 8 references: 5 Soviet, 2 German, and 1 English.

SUBMITTED:

May 28, 1959

VC

Card 3/3

GORDEYEV, G.S., prof.; YAKUSHKIN, D.I.. Prinimali uchastiye: GORSKAYA, N.V.; GRANOVSKAYA, A.Ye.; YEVSTIGHEYEVA, Yu.G.; KRYLOV, M.V.; LEYKIN, D.I.; MAKHOVETSKIY, V.B.; MEYENDOHF, A.L.; NAZAHENKO, V.I.; HICHIPORUK, O.K.; PAVLOV, L.I.; RUMYANTSEVA, N.V.; SOSENSKIY, I.I.; CHERNEVSKIY, Yu.V., TULUPNIKOV, A.I., red.; SOLOV YEV, A.V., prof., red.; RAKITINA, Ye.D., red.; ZUBRILINA, Z.P., tekhn.red.

[Agriculture in capitalist countries; a statistical manual] Sel'skoe khoziaistvo kapitalisticheskikh stran; statisitcheskii sbornik.

Moskva, Gos.izd-vo sel'khoz.lit-ry, 1958. 247 p. (MIRA 12:5)

1. Moscow. Vsesoyuznyy nauchno-issledovatel'skiy institut ekonomiki sel'skogo khozyayastva. 2. Otdel nauchnoy informatsii po ekonomike i organizatsii sel'skogo khozyayastva sarubezhnykh stran Vsesoyuznogo nauchno-issledovatel'skogo instituta ekonomiki sel'skogo khozyaystva (for all except Tulupnikov, Solov'yev, Rakitina, Zubrilina). 3. Direktor Vsesoyuznogo nauchno-issledovatel'skogo instituta ekonomiki sel'skogo khozyaystva (for Tulupnikov). 4. Zamestitel' direktora Vsesoyuznogo nauchno-issledovatel'skogo instituta ekonomiki sel'skogo khozyaystva (for Solov'yev).

(Agriculture--Statistics)

マロロミナミエ : USAR CATEGORY : Farm Animals. Q The Swine. ABS . JOUR. : RZhBlol., Ro. 1959, No. 12052 3, : Nazarenko, I. I., Gorskaya, N. V. : Institute of Agricultural Information. AUTHOR ILOT, TITLE : Testing Sire-Boars and Sows according to Their Progeny in Denmark (A Review). ORIG. PUB. : Sb. in-ta s.-kh. inform., 1958, No 5, 30-36 ABSTRACT : No abstract.

CARD:

1/1

66

	2.2
L 35328-66 EWT(m)/EWP(j) RM SOURCE CODE: UR/0020/66/166/002/0349/0352	•
AUTHOR: Andrianov, K.A. (Academician); Fedin, E.I.; Lavygin, I.A.; Gorskaya, N.V.;	
Tarana deladin R. Da	
ORG: Institute of Organo elemental Compounds, AN SSSR (Institut elementoorganiche skikh soyedinemiy AN SSSR)	
TITLE: Reaction of 8-hydroxyquinoline tribuloxytitanium with triethyl hydroxysilane	
SOURCE: AN SSSR. Doklady, v. 166, no. 2, 1966, 349-352 TOPIC TAGS: spectrometer, reaction mechanism, titanium compound, silane, esterifica-	
ARSTRACT: A miclear magnetic resonance spectrometer was used for studying the	
The first event in the reaction is apparently coordination of the oxygen in	
the hydroxyl radical of the distance by the mechanism of bimolecular which results in transesterification by the mechanism of bimolecular	
nucleophilic substitution. Substitution takes place	
Orig. art. has: 1 figure and 1 table. /JPRS: 36, 455/ SUB CODE: 07 / SUBM DATE: 21Jul65 / ORIG REF: 002	
Card 1/1 bdh 25 45	đ

ACC NR: AP7003534

SOURCE CODE:

UR/0386/67/005/001/0016/0017

AUTHOR: Fedin, E. I.; Gorskaya, N. V.

ORG: Institute of Organoelemental Compounds, Academy of Sciences SSSR (Institut elementoorganicheskikh soyedineniy Akademii nauk SSSR)

TITLE: Irreversibility of transition of NMR signals through a weak field in some molecular crystals

SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki. Pis'ma v redaktsiyu. Prilozheniye, v. 5, no. 1, 1967, 16-17

TOPIC TAGS: nuclear magnetic resonance, naphthalene, anthracene, spin relaxation, spin system, spin lattice relaxation

ABSTRACT: The authors performed an experiment with naphthalene single crystals, similar to the experiment of R. V. Pound (Phys. Rev. v. 81, 156, 1951), wherein the sample was demagnetized in a weak (terrestrial) field. Unlike the earlier results, which shoed reversibility of the transition through a weak field and demonstrated the existence of a spin temperature in LiF crystals, in naphthalene the transition through the weak field turned out to be irreversible for the NMR signal: a time t \approx 1 sec turned out to be sufficient for total disorientation of the nuclear spins in these crystals; subsequent establishment of the equilibrium magnetization and a corresponding growth of the NMR signal occurred, as in the initial magnetization, with a time constant $\tau \sim 10^3$ sec. Neither variation of the intensity of the rf field

<u>card</u> 1/2

ACC NR: AP7003534

over a wide range, nor defects in the crystal lattice, have any influence on this effect. The behavior of the NMR signal in anthracene and biphenyl was similar. Control experiments with molecular crystals and polymers whose molecules contain no closed electron delocalization loops or have additional intramolecular degrees of freedom (paradichlorobenzene, hexamethylbenzene, oxyacetate of beryllium, paraffin, polyethylene, etc.) disclosed full reversibility of the transition of the NMR signal through a weak field. This irreversibility is qualitatively treated as an indication that in the tested naphthalene, biphenyl, and anthracene, energy is effectively pumped out from the nuclear-spin system into the lattice when H < Hloc. A theoretical and experimental study of this effect is being continued. The authors thank A. I. Kitaygorodskiy for continuous interest, A. P. Amiton, B. A. Kvasov, N. O. Okulevich, and N. I. Okhlobystin for help with the measurements, and R. M. Myasnikov and L. A. Fedorov for supplying the samples.

SUB CODE: 20/ SUBN DATE: 010ct66 OTH REF: 003

Card 2/2

GOESKAYA, R.V.; YARYK-AGAYEVA, N.T.

Photometric determination of small amounts of pyridine.
Zhur. anal. khim. 20 no.6:760-761 '65.

(MIRA 18:7)

1. Nauchnc-issledovatel'skiy institut fiziologii truda, benetsk.

GORSKAYA, SV.

ANTIBIOTICS

"Synthetic Medium for the Culture of Streptomyces Globisporus Streptomycini of the Strain LS-1", by V.A. Severin, and S.V. Gorskaya, All-Union Scientific Research Institute of Antibiotics, Antibiotiki, No 2, March-April 1957, pp 26-32

Streptomyces globisporus streptomycini, which produces Streptomycin, is capable of growing, developing, and producing an antibiotic in nutrient media of various compositions; however, the most effective media have proved to be those containing corn extract and soya flour.

For intricate biochemical analysis, however, the authors found the synthetic seeding medium to be the most convenient. Consequently, a medium was developed consisting of: ammonium sulfate 0.4%; glucose 2-2.5%; lactic acid 0.6%; sodium bicarbonate 1% (or anhydrous 0.35%); sodium chloride 0.2%; mono-potassium phosphate 0.05%; ferrous sulfate (FeSO₁ .7H₂0) - 0.005%; manganese sulfate (MnSO₁ . 7H₂0) - 0.005%; magnesium sulfate (MgSO₁ . 7H₂0) - 0.01%; and zinc sulfate (ZnSO₁ . 7H₂0) - 0.001%.

Card 1/2

- 28 -

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R000516320016-7"

ANTIBIOTICS

This synthetic nutrient medium insured both stability and a favorable course of fermentation, as well as an output of 800 to 1000 units/ml., and over.

Card 2/2

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SEVERINA, V.A., GRACHEVA, I.V., GORSKAYA, S.V.

Amino nitrogen balance and metabolism in Actinomyces streptomycini during growth and development [with summary in English]. Vop.med. khim.4 no.6:455-463 N-D 58 (MIRA 12:1)

1. All-Union Research Institute of Antibiotics, Moscow.

(ACTINOMYCES, metab.

amino nitrogen in Actinomyces streptomycini (Rus))

(NITROGEN, metab.

same (Rus))

SEVERIN, V.A.; GORSKAYA, S.V.

Method for working with the cultivated mycel ium of a streptomycinproducing organism. Antibiotiki, 4 no.2:5-9 Mr-Ap '59. (MIRA 12:7)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut antibiotikov.
(STREPTONYCES, culture
cultivation of streptomycin producing strain (Ans))

SEVERINA, V.A.; GORSKAYA, S.V.; GRACHEVA, I.V.

Studies on the role of amino acids in streptomycin synthesis. Vop. med.khim. 5 no.6:448-457 N-D *59. (MIRA 13:3)

1. Vsesoyuznyy nauchno-issledovatel skiy institut antibiotikov, Moskva.

(STREFTOMYCIN chem.)

(AMINO ACIDS chem.)

17(2,3) 507/20-126-5-54/69

AUTHORS: Severina, V. A., Gorskaya, S. V., Gracheva, I. V.

TITLE: Effect of Amides on the Biosynthesis of Streptomycin (Vliyaniye

amidov na biosintez streptomitsina)

PERIODICAL: Doklady Akademii nauk SSSR, 1959, Vol 126, Nr 5,

pp 1103 - 1106 (USSR)

ABSTRACT: It was previously proved that various amino acids such as gly-

cine, α -alanine, valine, arginine, histidine, lysine, isoleucine and phenyl-alanine, stimulate the streptomycin formation both in the usual fermentation of the actinomycetes on a simple synthetic medium, and in severe experiments with cultivated mycelium. Various other amino acids do not show this effect, while others (cystine and tryptophane) suppress the formation of streptomycin. Most of the stimulating amino acids disappear from the nutrient medium after 40-48 hours. Ammonia is formed due to a desamination of the α -amino group; besides, arginine serves as an ammonia source on account of the arginase- and urease-activity of the actinomycetes. As is known, the strepto-

mycin molecule, namely its streptobiosamine part, contains

Card 1/3 methyl-glucosamine. There are publication references on a role

Effect of Amides on the Biosynthesis of Streptomycin SOV/20-126-5-54/69

of the glutamine in the glucosamine synthesis by transamination (Refs 1-3), in which glutamine acts as a distributor of the amino group. Under these points of view, the streptomycin producer was struck with the idea investigating this process. . . Asparagine and the genus IS-1 were first used for this purpose. For the method of cultivation, see reference 4. A culture without amide served as control. Table 1 shows that the activity of the culture-liquid increased by 25-40% as compared with the. control. Further 13 severe, even more accurate, experiments have shown (Table 2) that the said increase may even attain 60%. Thus, asparagine takes part in the streptomycin synthesis. Further experiments, with am without glucose, have shown (Table 3) that glucose raises considerably the yield of streptomycin; thus, according to an opinion uttered, asparagine has something to do with the formation of glucosamine. The control of the glucose consumption showed (Figs 1 a,b) that, in the presence of asparagine, the decrease of the glucose is higher than in the control. No spot of any amino acid could be ascertained chromatographically (Fig 2: 1-5). The disappearance of the amide strip speaks for a utilization of the nutrient by the fungus. A further task would be the testing of the effect of glutamine on the processes

Card 2/3

Effect of Amides on the Biosynthesis of Streptomycin SOV/20-126-5-54/69

in question. This could further clarify the mechanism of participation of the said amides in the building-up of the antibiotic molecule. There are 4 figures, 4 tables, and 4 references, 1 of which is Soviet.

ASSOCIATION: Vsesoyuznyy nauchno-issledovatel'skiy institut antibiotikov (All-Union Scientific Research Institute for Antiobiotics)

PRESENTED: March 19, 1959, by V. N. Shaposhnikov, Academician

SUBMITTED: March 10, 1959

Card 3/3

SEVERIN, V.A.; GORSKAYA, S.V.

Synthesis of streptomycin in enriched synthetic media. Antibiotiki 5 no. 5:21-25 S-0 '60. (MIRA 13:10)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut antibiotikov. (STREPTOMYCIN)

SEVERINA, V.A.; GORSKAYA, S.V.; GRACHEVA, I.V.

Role of amides in the biosynthesis of streptomycin. Vop. med. khim. 7 no.4:425-433 Jl-Ag 161. (MIRA 15:3)

1. The All-Union Research Institute of Antibiotics, Moscow. (STREPTOMYCIN) (AMIDES)

GORSKAYA, S. V., GRACHEVA, I. V., and SEVERIN, V. A. (USSR)

"Amides in the Biosynthesis of Streptomycin and Glucosamines."

Report presented at the 5th International Biochemistry Congress, Moscow, 10-16 Aug 1961

Congress on antibiotics in Prague. Antibiotiki 9 no.11:1028-1036 N '64. (MIRA 18:3)

SEVERINA, V.A.; GORSKAYA, S.V.; GRACHEVA, I.V.

Effect of cycloserine on the biosynthesis of glucosamine and streptomycin. Dokl. AM SSSR 154 no.4:960 F '64. (MIRA 17:3)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut antibioti-kov. Predstavleno akademikom A.N. Belozerskim.

GORSKAYA, T.S.

Motion picture on meadow and pasture grasses. Zemledelis 23 no.1: 93-94 Ja 161. (MIRA 13:12)

1. Starshiy agronom Glavnoy inspektsii po semledeliyu Ministerstva sel'skogo khozyaystva SSSR.

(Pastures and meadows)

(Motion pictures in agriculture)

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